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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/800,749	03/07/2001	Mingliang L. Tsai	H0001805 (4300)	4760	
75	90 11/21/2003		EXAMINER		
Roger H. Criss			NOLAN, SANDRA M		
Honeywell International Inc. P.O. Box 2245			ART UNIT	PAPER NUMBER	
101 Columbia Road			1772		
Morristown, NJ 07962			DATE MAILED: 11/21/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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a provisional application) n Application Data Sheet.

	Application No.	ipplicant(s)	
	09/800,749	TSAI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sandra M. Nolan	1772	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reposition of thirty within the statutory minimum of thirty will apply and will expire SIX (6) MONT cause the application to become ABA	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status 1)⊠ Responsive to communication(s) filed on <u>15 Se</u>	entember 2003		
,_ ,	action is non-final.		
3) Since this application is in condition for allowant closed in accordance with the practice under E	nce except for formal matte		
Disposition of Claims			
 4) Claim(s) 1 and 4-50 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4-13,15-43,45,46 and 48-50 is/are referenced by Claim(s) 14, 44 and 47 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration. ejected.		
Application Papers	•		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the open sheet of the property of the sheet of the shee	epted or b) objected to b drawing(s) be held in abeyand ion is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language profits 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Aprity documents have been rule (PCT Rule 17.2(a)). of the certified copies not rule priority under 35 U.S.C. § at sentence of the specifical visional application has been priority under 35 U.S.C. §	polication No eceived in this National Stage eceived. 119(e) (to a provisional application) ion or in an Application Data Sheet. en received. § 120 and/or 121 since a specific	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Inf	mmary (PTO-413) Paper No(s) primal Patent Application (PTO-152) .	

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DETAILED ACTION

Claims

1. Claims 1 and 4-50 are pending.

Rejections Withdrawn

- 2. The 35 USC 103 rejection of 1, 4-9, 11-17, 24, 26, 41-44 and 47-50 as being unpatentable over Laplante et al (US 2002/0002238 A1) in view of Cahill et al (US 6,346,308), as expressed in section 6 of the 10 July 2003 office action (Paper No. 12), is withdrawn in view of applicants' arguments in the response dated 15 September 2003 (Paper No. 13).
- 3. The 35 USC 103 rejection of claim 10 as being unpatentable over Laplante and Cahill and further in view of applicants' admission concerning the conventionality of retortable EVOH on page 3 of the specification, as set forth in section 7 of Paper No. 12, is withdrawn in view of applicants' arguments in Paper No. 13.
- 4. The 35 USC 103 rejection of claims 18, 25 and 45 as unpatentable over Laplante and Cahill further in view of Tai (EPO 1033080 A2), as set out in section 8 of Paper No. 12, is withdrawn in view of applicants' arguments in Paper No. 13.

Allowable Subject Matter

5. Claims 14, 44 and 47 are objected to for being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. The prior art of record fails to teach or suggest the use of base catalysts or the production of reaction products by contacting maleic anhydride-modified polybuta-dienes, ethylene/vinyl alcohol (EVOH) resin and transition metal compounds.

New Rejections

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1, 4-13, 15-43, 45-46 and 48-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tai in view of Cahill.

Tai teaches oxygen absorbent resin compositions (title) containing blends of polydiene resins (col. 8, lines 7-14), EVOH resins (col. 14, lines 37-41) and transition metal salts (col. 17, lines 23-29). Films are made (col. 28, lines 49-52). The compositions may be coated with thermoplastics to yield multilayer articles (col. 28, lines 53-57). Multilayer structures can be made and handled in various ways, including extrusion, dry lamination, blow molding, stretch forming, film drawing and uniaxial or biaxial stretching (col. 32, lines 15-29). The ingredients may be dry or melt blended (col. 39, lines 33-40). Bottles are made (col. 37, line 58). Hydrotalcite clay is taught as an additive (col. 20, lines 50-56).

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Tai fails to teach maleic anhydride-modified ("maleated") polybutadienes.

Cahill teaches maleated polybutadienes at col. 5, lines 27-54. It teaches that the maleic anhydride reactant (line 52) yields esterification sites in the polybutadiene (line 38) to enhance its oxygen scavenging. Note col. 5, lines 35-54.

Tai and Cahill are analogous because they both deal with oxygen scavenging resin systems.

It would have been obvious to one having ordinary skill in the art at the time that the invention was made to employ the maleated polybutadienes of Cahill in the compositions, products and processes of Tai in order to enhance the oxygen scavenging properties of articles made therewith.

The motivation to employ the maleated polybutadienes of Cahill in the compositions, products and processes of Tai is found at col. 5, lines 35-54, where the introduction of esterification sites into polybutadiene is said to enhance oxygen scavenging.

In the absence of convincing objective evidence to the contrary, the preblending of an additive with a resin component is deemed a matter of engineering choice. Such preblends, or masterbatches, are conventional.

Likewise, the use of retortable EVOH in the compositions, articles and processes suggested by the combination of Tai and Cahill is deemed a matter of properties optimization. Clearly, retortable EVOH's--such as those discussed on page 3 of applicants' specification--would be preferred when products packaged in using the combined Tai and Cahill technologies are retorted.

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Response to Arguments

Applicant's arguments with respect to claims 1, 4-13, 15-43, 45-46 and 48-50 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication should be directed to the Examiner, Sandra M. Nolan, whose telephone number is 703/308-9545. The Examiner can normally be reached on Monday through Thursday, from 6:30 am to 4:00 pm, Eastern Time.

If attempts to reach the Examiner by telephone are unsuccessful, her supervisor, Harold Pyon, can be reached at 703/308-4251. The general fax number for the art unit is 703/305-5436. The fax number for after final communications is 703/872-9310. The receptionist answers 703/308-0661.

S. M. Nolan

Patent Examiner

S. M. Nolan

Technology Center 1700

SMN/smn 09800749(14) 17 November 2003